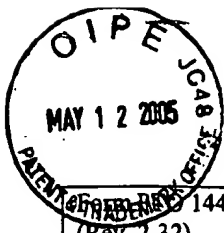
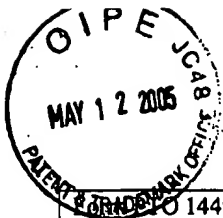


Form PTO/DON-149 (Rev. 2-32) U.S. Department of Commerce Patent and Trademark Office				Atty. Docket No. IMMR-VTI0011A		Serial No. 09/675,811	
Information Disclosure Statement by Applicant (Use several sheets if necessary)				Applicant: Ron Carmel			
Filed: September 29, 2000				Group: 2128			
<b>U.S. Patent Documents</b>							
Init.		Document No.	Date	Name	Class	Subclass	Filing Date
<b>Foreign Documents</b>							
Translation							
Init.		Document No.	Date	Country	Class	Subclass	Yes No
2	A	2 185278	07/19/1990	JP			X
2	B	4 8381	01/13/1992	JP			X
3	C	7 24147	01/27/1995	JP			X
3	D	5 192449	08/03/1993	JP			X
<b>Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)</b>							
2	E	Adelstein et al, "Design and Implementation of a Force Reflecting Manipulandum for Manual Control Research", DSC-Vol. 42, Advances in Robotics, pp. 1-12, 1992.					
3	F	Aukstakalnis et al., "Silicon Mirage: The Art and Science of Virtual Reality", pp. 129-180, 1992.					
3	G	Baigrie, "Electric Control Loading - A low Cost, High Performance Alternative," Proceedings of Interservice/Industry Training Systems Conference, pp. 247-254, November 6-8, 1990.					
3	H	Bejczy, "Sensors, Controls, and Man-Machine Interface for Advanced Teleoperation," Science, Vol. 208, No. 4450, pp. 1327-1335, June 20, 1980.					
3	I	Bejczy et al., "Generalization of Bilateral Force-Reflecting Control of Manipulators," Fourth CISM-IFTOMM Symposium of Theory and Practice of Robots and Manipulators, 14 pgs, September 8-12, 1981.					
3	J	Bejczy et al., "A Laboratory Breadboard System for Dual-Arm Teleoperation," SOAR '89 Workshop, JSC, pp. 1-12, July 25-27, 1989.					
3	K	Bejczy et al., "Universal Computer Control System (UCCS) for Space Telerobots," CH2413-3/87/0000/0318501.00, pp. 318-324, March 31-April 3, 1987.					
2	L	Bliss, "Optical-to-Tactile Image Conversation for the Blind," IEEE Transactions on Man-Machine Systems, Vol. MMS-11, No. 1, pp. 58-65, March 1970.					
3	M	Brooks et al., "Hand Controllers for Teleoperation - A State-of-the-Art Technology Survey and Evaluation," JPL Publication 85-11, NASA-CR-175890; N85-28559, pp. 1-84, March 1, 1985.					
3	N	Burdea et al., "Lecture Notes for Workshop on Force Display in Virtual Environments and its Application to Robotic Teleoperation", pp. 25-44, May 2, 1993.					
3	O	Calder, "Design of a Force-Feedback Tough-Introducing Actuator for Teleoperator Robot Control", Bachelor of Science Thesis, MIT, May 1983.					
2	P	Eberhardt et al., "Inducing Dynamic Haptic Perception by the Hand: System Description and Some Results", DSC-Vol. 55-1, Dynamic Systems and Control: Volume 1, pp. 345-351, ASME 1994.					
3	Q	Gobel et al., "Tactile Feedback Applied to Computer Mice," International Journal of Human-Computer Interaction, Vol. 7, No. 1, pp. 1-24, 1995.					
Examiner					Date Considered 4/23/05		
Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.							



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U.S. Patent Documents								
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Foreign Documents								
Translation								
Init.		Document No.	Date	Country	Class	Subclass	Yes	No
Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)								
3	R	Gotow et al., "Controlled Impedance Test Apparatus for Studying Human Interpretation of Kinesthetic Feedback", Proceedings of the 1989 American Control Conference, pp. 332-337, June 21-23, 1989.						
3	S	Jacobsen et al., "High Performance, Dextrous Telerobotic Manipulator with Force Reflection", Intervention/ROV '91 Conference & Exposition, pp. 213-218, May 21-23, 1991.						
3	T	Johnson, "Shape-Memory Alloy Tactile Feedback Actuator", "Armstrong Aerospace Medical Research Laboratory, AAMRL-TR-90-039, pp. 1-33, August, 1990.						
2	U	Kontarinis et al., "Tactile Display of Vibratory Information in Teleoperation and Virtual Environments", Presence, Vol. 4, Number 4, pp. 387-402, Fall 1995.						
3	V	Kontarinis et al., "Display of High-Frequency Tactile Information to Teleoperators", SPIE, Vol. 2057, pp. 40-50, September 7-9, 1993.						
3	W	Kaczmarek et al., "Tactile Displays", Virtual Environment Technologies, Chapter 9, pp. 349-414.						
3	X	Lake, "Cyberman from Logitech", at <a href="http://www.ibiblio.org/GameBytes/Issue21/greviews/cyberman.html">http://www.ibiblio.org/GameBytes/Issue21/greviews/cyberman.html</a> , 1994.						
2	Y	Logitech Cyberman SWIFT Supplements to Logitech Mouse Technical Reference and Programming Guide, "Cyberman Technical Specification," pp. 1-29, April 5, 1994.						
3	Z	Marcus, "Touch Feedback in Surgery", Proceedings of Virtual Reality and Medicine the Cutting Edge, pp. 96-97, Sep. 8-11, 1994.						
3	AA	McAfee et al., "Teleoperator Subsystem/Telerobot Demonstrator: Force Reflecting Hand Controller Equipment Manual", January 1988.						
3	AB	Minsky, "Computational Haptics: The Sandpaper System for Synthesizing Texture for a Force-Feedback Display", Ph.D. Dissertation, MIT, pp. 1-217, June 1995.						
3	AC	Noll, "Man-Machine Tactile", Issue of SID Journal, July/August 1972.						
3	AD	Ouh-Young, "Using a Manipulator Force Display", Force Display in Molecular Docking, pp. 1-369, 1990.						
3	AE	Ouhyoung et al., "The Development of a Low-Cost Force Feedback Joystick and its Use in the Virtual Reality Environment", Proceedings of the Third Pacific Conference on Computer Graphics and Applications, Pacific Graphics '95, Seoul, Korea, pp. 309-319, August 21-24, 1995.						
2	AF	Patrick, "Design, Construction, and Testing of a Fingertip Tactile Display for Interaction with Virtual and Remote Environments", Master of Science Thesis, MIT, pp. 1-109, August 1990.						
3	AG	Patrick et al., "Design and Testing of a Non-Reactive, Fingertip, Tactile Display for Interaction with Remote Environments", Cooperative Intelligent Robotics in Space, Rui J. deFigueiredo et al., editor, Proc. SPIE, Vol. 1387, pp. 215-222, 1990.						
Examiner					Date Considered			
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1449 (Rev. 2-32) U.S. Department of Commerce Patent and Trademark Office				Atty. Docket No. IMMR-VT10011A		Serial No. 09/675,811		
Information Disclosure Statement by Applicant				Applicant: Ron Carmel				
(Use several sheets if necessary)				Filed: September 29, 2000		Group: 2128		
U.S. Patent Documents								
Init.		Document No.	Date	Name	Class	Subclass	Filing Date	
Foreign Documents								
Translation								
Init.		Document No.	Date	Country	Class	Subclass	Yes	No
Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)								
2	AH	Pimentel et al., "Virtual Reality: Through the New Looking Glass", Second Edition, pp. 41-202, 1994.						
2	AI	Russo, "The Design and Implementation of a Three Degree of Freedom Force Output Joystick", MIT Libraries Archives pp. 1-131, May 1990.						
3	AJ	Russo, "Controlling Dissipative Magnetic Particle Brakes in Force Reflective Devices, " DSC-Vol. 42, Advances in Robotics, pp. 63-70, ASME 1992.						
3	AK	Rosenberg, "Virtual Fixtures: Perceptual Overlays Enhance Operator Performance in Telepresence Tasks", Ph.D. Dissertation, pp. 1-214, August 1994.						
3	AL	Scannell, "Taking a Joystick Ride", Computer Currents, Boston Edition, Vol. 9, No. 11, 3 pgs., November 1994.						
3	AM	Safe Flight Instrument Corporation, "Technical Manual Overhaul Instructions with Parts Breakdown", Coaxial Control Shaker Part No. C-25502", Revised July 15, 1980.						
3	AN	Snow et al., "Model-X Force-Reflecting-Hand-Controller", NT Control No. NPTO-17851; JPL Case No. 7348, pp. 1-4 with 45 pages of attachments, June 15, 1989.						
3	AO	Stanley et al., "Computer Simulation of Interacting Dynamic Mechanical Systems Using Distributed Memory Parallel Processors", DSC-Vol. 42 Advances in Robotics, pp. 55-61, ASME 1992.						
3	AP	Tadros, "Control System Design for a Three Degree of Freedom Virtual Environment Simulator Using Motor/Brake Pair Actuators", MIT Archive, pp. 1-88, February 1990.						
3	AQ	Wiker, "Teletouch Display Development: Phase 1 Report", AD-A206 919, Technical Report 1230, July 1988.						
3	AR	Yamakita, et al., "Tele-Virtual Reality of Dynamic Mechanical Model", Proceedings of the 1992 IEEE/RSJ International Conference on Intelligent Robots and Systems, pp. 1103-1110, July 7-10, 1992.						
3	AS	Zilles, et al., "A Constraint-based God-Object Method for Haptic Display", Department of Mechanical Engineering,						
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3								
Examiner				Date Considered				
267				5/23/05				
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